

I CLAIM:

1. A stateless protocol method which is operable on a computer processor and computer memory, the stateless protocol comprising a computer program which configures the computer processor to:

establish a legacy protocol, wherein said legacy protocol defines at least one legacy parameter for a header portion of a message, and wherein said legacy protocol defines a fixed legacy header length;

receive an inbound message having a header portion;

allocate a memory portion from the computer memory, said memory portion having a depth corresponding to said fixed legacy header length;

push said header portion of said inbound message onto said memory portion thereby forming a received header; and

interpret said received header according to said legacy protocol.

2. The stateless protocol method according to claim 1, further comprising a computer program which configures the computer processor to:

establish an upgraded protocol, wherein said upgraded protocol includes said at least one legacy parameter of said legacy protocol, wherein said upgraded protocol defines at least one upgraded header parameter for said header portion, and wherein said upgraded protocol defines a fixed upgraded header length;

wherein said memory portion has a depth corresponding to said upgraded header length;

wherein said received header of said inbound message is interpreted according to said upgraded protocol if at least one upgraded header parameter is pushed on the memory portion; and

wherein said received header of said inbound message is interpreted according to said legacy protocol when no upgraded header parameters are pushed on the memory portion.

3. The stateless protocol method according to claim 2 further comprising a computer program which configures the computer processor to:

pad said memory portion with default padding values when said header portion of said inbound message does not fill said memory portion.

4. The stateless protocol method according to claim 1, wherein said legacy parameter comprises a value-type pair.

5. The stateless protocol method according to claim 1, wherein said inbound message includes a data portion and wherein said header portion is pushed onto said memory portion after said data portion.

6. A stateless protocol method which is operable on a computer processor and computer memory, the stateless protocol comprising a computer program which configures the computer processor to:

establish a legacy protocol, wherein said legacy protocol defines at least one legacy parameter for a header portion of a message, and wherein said legacy protocol defines a fixed legacy header length;

construct a legacy header according to said legacy protocol;

append said legacy header to outbound data thereby creating an outbound message; and

send said outbound message.

7. The stateless protocol method according to claim 6, further comprising a computer program which configures the computer processor to:

establish an upgraded protocol, wherein said upgraded protocol includes said at least one legacy parameter of said legacy protocol, wherein said upgraded protocol defines at least one upgraded header parameter, and wherein said upgraded protocol defines a fixed upgraded header length;

construct an upgraded header according to said upgraded protocol; and

append said upgraded header to outbound data.

8. The stateless protocol method according to claim 7 wherein the computer program configures the computer processor to append said upgraded header to outbound data wherein said at least one legacy parameter is proximate to said outbound data.

9. The stateless protocol method according to claim 6 wherein said legacy parameter comprises a value-type pair.

10. The stateless protocol method according to claim 7, wherein said inbound message includes a data portion, and wherein said header portion is pushed onto said memory portion after said data portion.

11. A stateless protocol method which is operable on a computer processor and computer memory, the stateless protocol comprising a computer program which configures the computer processor to:

establish a legacy protocol, wherein said legacy protocol defines at least one legacy parameter for a header portion of a message, and wherein said legacy protocol defines a fixed legacy header length;

receive an inbound message having a header portion;

allocate a memory portion from the computer memory, said memory portion having a depth corresponding to said fixed legacy header length;

push said header portion of said inbound message onto said memory portion thereby forming a received header;

interpret said received header according to said legacy protocol;

construct a legacy header according to said legacy protocol;

append said legacy header to outbound data thereby creating an outbound message; and

send said outbound message.

12. The stateless protocol method according to claim 11, further comprising a computer program which configures the computer processor to:

establish an upgraded protocol, wherein said upgraded protocol includes said at least one legacy parameter of said legacy protocol, wherein said upgraded protocol defines at least one upgraded header parameter, and wherein said upgraded protocol defines a fixed upgraded header length;

wherein said memory portion has a depth corresponding to said upgraded header length;

wherein said received header of said inbound message is interpreted according to said upgraded protocol if at least one upgraded header parameter is pushed on the memory stack;

wherein said received header of said inbound message is interpreted according to said legacy protocol if no upgraded header parameters are pushed on the memory stack;

construct an upgraded header according to said upgraded protocol; and
append said upgraded header to outbound data.

13. The stateless protocol method according to claim 11 further comprising a computer program which configures the computer processor to push said legacy parameter onto said memory portion before said upgraded parameter is pushed onto said memory portion.

14. The stateless protocol method according to claim 11 further comprising a computer program which configures the computer processor to:

receive said inbound message from an upper layer application having a header portion in an upper layer format; and

send said outbound message to a lower layer application.

15. A stateless protocol system for processing at least one inbound message, the system comprising:

a computer memory; and

a computer processor, said processor being programmed to

establish a legacy protocol, wherein said legacy protocol defines at least one legacy parameter for a header portion of a message, and wherein said legacy protocol defines a fixed legacy header length;

allocate a memory portion from the computer memory, said memory portion having a depth corresponding to said fixed legacy header length;

push said header portion of said inbound message onto said memory portion wherein said data portion is pushed onto said stack first; and

interpret said received header according to said legacy protocol.

16. The stateless protocol system according to claim 15, wherein said processor is further programmed to:

establish an upgraded protocol, wherein said upgraded protocol includes said at least one legacy parameters of said legacy protocol, wherein said upgraded protocol defines at least one upgraded header parameter, and wherein said upgraded protocol defines a fixed upgraded header length;

wherein said memory portion has a depth corresponding to said upgraded header length;

wherein said portion of said message is interpreted according to said upgraded protocol if at least one upgraded header parameter is pushed onto said memory portion; and

wherein said portion of said message is interpreted according to said legacy protocol if no upgraded header parameters are pushed onto said memory portion.

17. The stateless protocol system according to claim 16 wherein said processor is further programmed to pad said memory portion with default padding values when said message does not fill said memory portion.

18. A stateless protocol system for processing at least one outbound message, the system comprising:

a computer memory; and

a computer processor, said processor being programmed to establish a legacy protocol, wherein said legacy protocol defines at least one legacy parameter for a header portion of a message, and wherein said legacy protocol defines a fixed legacy header length;

construct a legacy header according to said legacy protocol;

append said legacy header to outbound data thereby creating an outbound message having said fixed legacy message length; and

send said outbound message.

19. The stateless protocol system according to claim 18, wherein said processor is further programmed to:

- establish an upgraded protocol, wherein said upgraded protocol includes said at least one legacy parameter of said legacy protocol, wherein said upgraded protocol defines at least one upgraded header parameter, and wherein said upgraded protocol defines a fixed upgraded message length;
- construct an upgraded header according to said upgraded protocol; and
- append said upgraded header to outbound data, thereby creating an outbound message of said fixed upgraded message length.

20. A stateless protocol system for processing inbound and outbound messages, the system comprising:

- a computer memory; and
- a computer processor, said processor being programmed to
 - establish a legacy protocol, wherein said legacy protocol defines at least one legacy parameter for a header portion of inbound and outbound messages, and wherein said legacy protocol defines a fixed legacy message length;
 - receive an inbound message having a data portion;
 - allocate a memory stack from said computer memory, said memory stack having a depth corresponding to said fixed legacy message length;
 - push said inbound message onto said memory stack thereby forming at least a portion of said inbound message, wherein said data portion is pushed onto said stack proximate to a bottom of said stack;

interpret said portion of said inbound message according to said legacy protocol;
construct a legacy header according to said legacy protocol;
append said legacy header to outbound data thereby creating an outbound message of said fixed legacy message length; and
send said outbound message.

21. The stateless protocol system according to claim 20, wherein said processor is further programmed to:
- establish an upgraded protocol, wherein said upgraded protocol includes said at least one legacy parameter of said legacy protocol, wherein said upgraded protocol defines at least one upgraded header parameter, and wherein said upgraded protocol defines a fixed upgraded message length;
 - wherein said memory stack has a depth corresponding to said upgraded message length;
 - wherein said portion of said inbound message is interpreted according to said upgraded protocol if at least one upgraded header parameter is pushed onto said memory stack;
 - wherein said portion of said inbound message is interpreted according to said legacy protocol if no upgraded header parameters are pushed onto said memory stack;
 - construct an upgraded header according to said upgraded protocol; and

append said upgraded header to outbound data, wherein said at least one legacy parameter is proximate to said outbound data, thereby creating an outbound message of said fixed upgraded message length.

22. The stateless protocol method according to claim 21 wherein said processor is further programmed to:

receive said inbound message from an upper layer application having a data portion in an upper layer format; and

send said outbound message to a lower layer application.

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